

**ABSTRACT OF THE DISCLOSURE**

This invention relates to a computer software program product, including computer readable memory and a computer software program stored on the memory, for calculating linkage disequilibrium values for individual pairs of gene loci for two or more gene polymorphism data groups and displaying results comparatively on a display monitor. The program includes: a color output command for converting the linkage disequilibrium values for individual pairs of gene loci for a first gene polymorphism data group and those for a second gene polymorphism data group into a first color set and a second color set, each color set comprising colors with differently allocated saturation, brightness and density based on the linkage disequilibrium values, and for outputting the two color sets; and a comparative display command for displaying comparative results for the first and second color sets on a display monitor in such a way that comparison of the disequilibrium values between the first and second gene polymorphism data groups can be made.